

**TUNABLE GROUND RETURN IMPEDANCE
FOR A WIRELESS COMMUNICATION DEVICE**

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ABSTRACT

An apparatus (100) and a method (1300) for a wireless portable communication device for tuning ground return impedance based upon its configuration are provided. The wireless portable communication device (100) detects its configuration and provides appropriate impedance for a desired antenna performance for the detected configuration by adjusting a ground return impedance block (114) between a printed circuit board ground (108) and a chassis (112).